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CORRECTED NOTICE OF ALLOWANCE AND FEE(S) DUE

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01/13/2005

Bryan Cave LLP 1290 Avenue Of The Americas 33rd Floor New Yrk, NY 10104

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| PAK, YONG D | | | | | | |
| | ART UNIT | | PAPER NUMBER | | | |
| | 1652 | | | | | |

DATE MAILED: 01/13/2005

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/053,192 | 01/15/2002 | Heinrich Bachmann | 20347 US1 | 4078 |

TITLE OF INVENTION: BETA, BETA-CAROTENE 15, 15'-MONOOXYGENASES, NUCLEIC ACID SEQUENCES CODING THEREFOR AND THEIR USE

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$300 | \$1700 | 04/13/2005 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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| CURRENT CORRESPONDENC | E ADDRESS (Note: Use Block 1 for a | my change of address) | | Fee(c) Transmittal Th | f mailing can only be used for the first certificate cannot be used. | for any other accompanying |
| 75 | 90 01/13/2005 | • | | papèrs. Each addition have its own certificat | al paper, such as an assignment of mailing or transmission. | ent or formal drawing, must |
| Bryan Cave LLP | 70 0113/2003 | | | | rtificate of Mailing or Tran | |
| 1290 Avenue Of Th | ne Americas | | | I hereby certify that the | his Fee(s) Transmittal is bein | g deposited with the United |
| 33rd Floor | ic 7 tinerious | | | States Postal Service addressed to the Ma | his Fee(s) Transmittal is bein with sufficient postage for fir il Stop ISSUE FEE address PTO (703) 746-4000, on the | st class mail in an envelope above, or being facsimile |
| New Yrk, NY 1010 | 14 | | | transmitted to the USI | PTO (703) 746-4000, on the | |
| | | | | | | (Depositor's name) |
| | • | | | | | (Signature) |
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| CFR 1.363). | ence address (or Change of (| Correspondence | (1) the names of to or agents OR, alter | p to 3 registered pate | nt attorneys | |
| Address form PTO/SB/12 | 2) attached. | | (2) the name of a | ingle firm (having as | a member a 2 | |
| PTO/SR/47: Rev 03-02 | ion (or "Fee Address" Indica or more recent) attached. Use | tion form | registered attorney | ingle firm (having as or agent) and the nan attorneys or agents. If | nes of up to f no name is 3 | |
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| | assignee category or categor | | | ☐ Individual ☐ C | Corporation or other private gr | oup entity Government |
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| | MALL ENTITY status. See 3 | | | | LL ENTITY status. See 37 C | |
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| Typed or printed name | | | | Registration | 1 No | |
| This collection of information application. Confidentialist the completed aphis form and/or suggestions Box 1450, Alexandria, Virgina 22313- | n is required by 37 CFR 1.31 ty is governed by 35 U.S.C. plication form to the USPTO for reducing this burden, sh nia 22313-1450. DO NOT \$ 1450. | 1. The information i 122 and 37 CFR 1.1 D. Time will vary de ould be sent to the C SEND FEES OR CO | s required to obtain 4. This collection pending upon the hief Information C MPLETED FORM | s estimated to take 12 ndividual case. Any c fficer, U.S. Patent and S TO THIS ADDRES | the public which is to file (an minutes to complete, includi omments on the amount of ti I Trademark Office, U.S. Dep S. SEND TO: Commissioner displays a valid OMB contro | ng gathering, preparing, and me you require to complete lartment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| 75 | 590 01/13/2005 | EXAM | EXAMINER | |
| Bryan Cave LLP | | PAK, Y | PAK, YONG D | |
| 1290 Avenue Of T | he Americas | | | D. DED MID (DED |
| 33rd Floor | | | ART UNIT | PAPER NUMBER |
| New Yrk, NY 10104 | | | 1652 | |
| | | | DATE MAIL ED. 01/12/000 | |

DATE MAILED: 01/13/2005

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.